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Abstract

A flame retardant polymer composition consists of

10 a) 20 - 60 percent by weight of a thermoplastic and/or
cross-linked or cross-linkable elastomer

and

15 b) as a flame retardant agent 40 - 80 percent by weight
either of an aluminium hydroxide with the material
values

20 - specific surface according to BET 3 - 5 mg²/g
- mean grain size d₅₀ 1.0 - 1.5 μm
- residual moisture 0.1 - 0.4 %
- oil absorption 19 - 23%
- water absorption 0.4 - 0.6 ml/g

25 or of an aluminium hydroxide with the material values

30 - specific surface according to BET 5 - 8 m²/g
- mean grain size d₅₀ 0.8 - 1.3 μm
- residual moisture 0.1 - 0.6 %
- oil absorption 21 - 25 %
- water absorption 0.6 - 0.8 ml/g.

A process of producing the flame retardant agent is
characterised in that a filter-moist aluminium hydroxide
35 obtained by precipitation and filtration with a mean grain size
of 0.8 to 1.5 μm is subjected to mill drying in a turbulent hot

5 air stream in such a way that, while the grain distribution is largely retained, the BET surface is increased by at least 20 %.